

## ABSTRACT

An optical fiber pumped through the cladding and a method of fabricating it

The invention concerns an optical fiber pumped through the cladding, including:

- a core having an optical index  $n_1$ ,
- around the core, a first cladding having an index  $n_2$  lower than  $n_1$ , and
- around the first cladding, a second cladding having an index  $n_3$  lower than  $n_2$ ,

characterized in that the interface between the first cladding and the second cladding has a substantially polygonal cross section.

The invention also concerns a method of fabricating an optical fiber pumped through the cladding, characterized in that it consists in executing the following steps:

- placing around a central optical preform including a core having an index  $n_1$  surrounded by a first cladding having an index  $n_2$  lower than  $n_1$ , a plurality of rods having an index  $n_3$  lower than  $n_2$ , and
- drawing the optical preform and the rods in a vacuum to obtain an optical fiber including a core and two claddings.

Figure to be published : Fig. 1

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